

**What Is Claimed Is:**

1           1.    A method of decreasing human immunodeficiency  
2   virus entry into cells, the method comprising decreasing  
3   levels of functional CD63 present within the human  
4   immunodeficiency virus and the cells.

1           2.    The method of claim 1 wherein decreasing levels  
2   of functional CD63 comprises exposing the CD63 to an  
3   inhibitor of the functional CD63.

1           3.    The method of claim 1 wherein the inhibitor is  
2   an antibody.

1           4.    The method of claim 1 wherein the cells are  
2   macrophages.

1           5.    A method of treating or preventing human  
2   immunodeficiency virus infection in a subject, the method  
3   comprising administering to the subject an amount of a  
4   compound effective to decrease levels of functional CD63  
5   in cells of the subject.

1           6.    The method of claim 5 wherein the compound  
2   decreases levels of functional CD63 by decreasing CD63  
3   gene expression.

1           7.    The method of claim 6 wherein decreasing CD63  
2   gene expression comprises exposing the cells to a  
3   compound which decreases CD63 gene expression.

1           8.    The method of claim 7 wherein the compound is  
2   an antisense oligonucleotide targeted to the CD63 gene.

1           9.    The method of claim 5 wherein the compound is  
2    an inhibitor of the functional CD63.

1           10. The method of claim 9 wherein the inhibitor is  
2    an antibody.